(19) World Intellectual Property **Organization** International Bureau





(43) International Publication Date 6 May 2005 (06.05.2005)

PCT

(10) International Publication Number WO 2005/041289 A3

(51) International Patent Classification⁷: H05K 13/04

H01L 21/58,

(21) International Application Number:

PCT/EP2004/052616

(22) International Filing Date: 21 October 2004 (21.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 10349167.8

22 October 2003 (22.10.2003) DE

- (71) Applicant (for all designated States except US): MAR-CONI COMMUNICATIONS GMBH [DE/DE]; Gerberstrasse 33, 71520 Backnang (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KONRATH, Willibald [DE/DE]; Eichendorffweg 17, 71544 Weissach im Tal (DE). SCHMELCHER, Haiko [DE/DE]; Lindenstr. 36, 74427 Fichtenberg (DE). SCHOLL, Klaus [DE/DE]; Stresemannstr. 30/5, 71522 Backnang (DE). MULLER, Ulf [DE/DE]; Elbestrasse 30, 71522 Backnang (DE).
 - (74) Agents: COCKAYNE, Gillian et al.; Marconi Intellectual Property, Crompton Close, Basildon Essex SS14 3BA (GB).

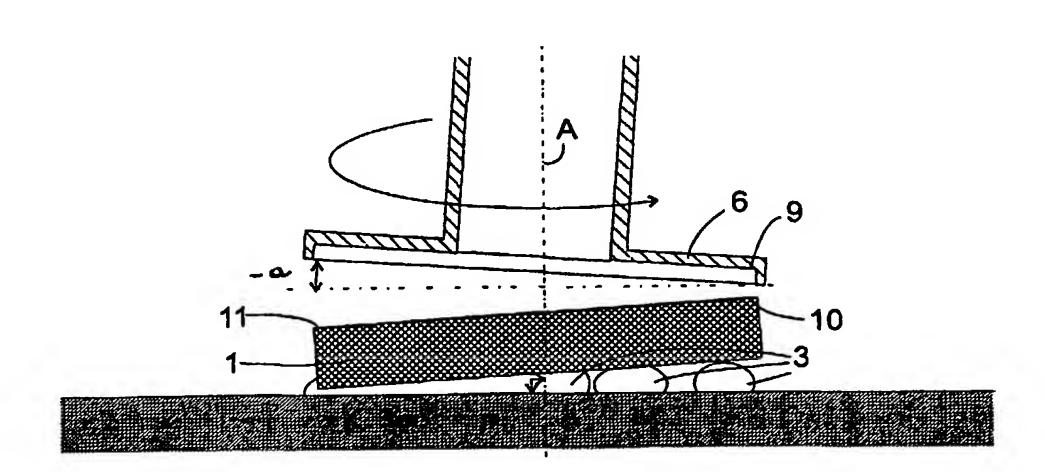
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 16 June 2005

[Continued on next page]

(54) Title: METHOD FOR GLUING A CIRCUIT COMPONENT TO A CIRCUIT SUBSTRATE



(57) Abstract: A circuit component (1) is glued to the circuit substrate (2) by the following steps:, a) seizing a circuit component (1) using a grip-per (4); b) moving the gripper (4) towards the surface of the circuit substrate (2) up to a target distance from the surface at which adhesive (3) applied between the circuit component (1) and the circuit substrate (2) is pressed; C) releasing the circuit component (1) and removing the gripper (4) from the circuit component (1); d) turning the gripper (4) around an axis (A) perpendicular to the surface of the circuit substrate (2); e) moving the gripper (4) into the target distance again; and f) removing the gripper (4) again.

05/041289

WO 2005/041289 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.